



## MARKED-UP VERSION OF

### SUBSTITUTE SPECIFICATION UNDER 37 C.F.R. 1.125

#### A METHOD AND APPARATUS FOR CONTROLLING ~~THE~~ HEAD VELOCITY IN OF A DISK HARD DRIVE DURING RAMP LOAD/UNLOAD

#### FIELD OF THE INVENTION

The present invention relates to ~~a method and apparatus for controlling the transducer head velocity inef~~ a disk drive during ~~a~~ ramp load or unload procedure.

- 10 ~~More particularly, the present invention provides for the control of the transducer heads using a microprocessor to determine the speed of the heads and, accordingly, to make velocity adjustments.~~

#### BACKGROUND OF THE INVENTION

- 15 ~~DA hard disk drives include is a device with one or more disks, or platters,~~ on which digital information is stored ~~asin the form of~~ magnetic charges. The disk (or disks) is are mounted on ~~and rotated by a cylindrical spindle rotated by a spindle motor assembly.~~ An actuator assembly includes an actuator arm and Contemporary hard disk drives typically include ~~an actuator, a rotary actuator structure that is powered by a voice coil motor ("VCM").~~ The ,an actuator arm 20 extendsing from the VCM and supports a slider that includes a read/write head. The head reads from and writes to the disk as the slider flies over the disk on an air cushion. T,he VCM positions the head and a transducer head disposed at the end of the actuator arm. ~~The rotary actuator structure positions one or more slider head assemblies at desired locations relative to the surfaces of the~~ 25 ~~magnetic disk or disks. A hard disk read/write head, which is used to read and~~